

From: Sikes, Monica [monica_sikes@fws.gov]
Sent: 11/8/2019 2:43:28 PM
To: Schaub, Mike [Schaub.Mike@epa.gov]
CC: Brigitte Firmin [brigitte_firmin@fws.gov]; Trahan, Amy [amy_trahan@fws.gov]
Subject: Re: [EXTERNAL] heelsplitter study by Powell
Attachments: SSP Final Report-Auburn University.pdf; Final Submitted Thesis-Hartline Dec 2013.pdf

Mike, I did a little asking around and talked to Jeff Powell about getting these papare (actually the thesis was on the link - I just missed it. I have attached it her anyway. See if these help. As far as I can tell, this was what I was referring to during our conversation. have a good weekend, Monica

Monica Sikes
Fish and Wildlife Biologist
U.S. Fish & Wildlife Service
Louisiana Ecological Services
Mississippi-Basin Region
200 Dulles Drive
Lafayette, LA 70506
337-291-3118 (office)
337-291-3139 (fax)

<https://www.fws.gov/southeast/lafayette>

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"I have not failed. I have just found 10,000 things that do not work." Thomas Edison

On Wed, Nov 6, 2019 at 2:50 PM Schaub, Mike <Schaub.Mike@epa.gov> wrote:

Thanks for sending this Monica. I'm sorry to hear you're moving on, but I look forward to working with Brigitte and Amy moving forward.

Back in May, we were discussing the possible impacts of low DO on host fish species to Alabama heelsplitter glochidia. The abstract to this paper does conclude that DO levels of 4mg/L may not be adequate for all the species tested, although I'm unaware if these species serve as such hosts. I have read that freshwater drum are the most likely hosts, hence my original question about the DO needs for host species. If you come across additional info on this, please let me know! Thanks so much!

Mike Schaub

Water Quality Standards Program

Water Division

US EPA Region 6-Dallas

214-665-7314

From: Sikes, Monica <monica_sikes@fws.gov>
Sent: Wednesday, November 6, 2019 2:01 PM
To: Schaub, Mike <Schaub.Mike@epa.gov>
Cc: Brigitte Firmin <brigitte_firmin@fws.gov>; Trahan, Amy <amy_trahan@fws.gov>
Subject: Re: [EXTERNAL] heelsplitter study by Powell

Mike, I do not have a hard copy of the thesis. I scanned the digital drives for it but haven't had luck yet. I can email Jeff Powell and ask about it if this is what you were thinking of. Just let me know. Thanks!

Monica Sikes

Fish and Wildlife Biologist

U.S. Fish & Wildlife Service

Louisiana Ecological Services

Mississippi-Basin Region

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On Wed, Nov 6, 2019 at 1:58 PM Sikes, Monica <monica_sikes@fws.gov> wrote:

<https://www.sciencebase.gov/catalog/item/57e2b6bde4b090825004599f>

I wonder if I was citing this summary at the above link. I can't find a hardcopy, but it looks like this research was accomplished through an SSP proposal that resulted in a thesis. Brigitte Firmin is copied here for an FYI because I'm not sure if you two have had an opportunity to meet. Brigitte has replace me as the ESA Section 7 team lead and will assume the roles I previously had. After you take a look, see if you think this was what you are thinking of.....ugh my memory..... I've copied Amy too in case she remembers more. She will still be working on the Section 7 consultation team with Brigitte. Anyway, I hope this helps!

Monica Sikes

Fish and Wildlife Biologist

U.S. Fish & Wildlife Service

Louisiana Ecological Services

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On Tue, Nov 5, 2019 at 9:39 AM Schaub, Mike <Schaub.Mike@epa.gov> wrote:

Hi Monica,

I hope this email finds you well. Back in May, we had a conference call with you and Amy Trahan regarding DO criteria in the eastern LMRAP ecoregion. One thing you mentioned at that time was a study by Jeff Powell that made the following conclusions (based on our notes from the call):

- Alabama study (Jeff Powell) indicated that DO levels below 4mg/L may not be adequate for fish species that serve as hosts for molluscan larvae (glochidia).
- Host species impacts may affect ability of glochidia to attach/drop off in favorable habitat or at favorable times (due to fish avoidance of low DO areas).

Would you happen to have the study by Jeff Powell that indicated these findings?

Many thanks!

Mike Schaub
Water Quality Standards Program
Water Division
US EPA Region 6-Dallas
214-665-7314